



# WISCONSIN FARM REPORTER

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The Wisconsin Farm Reporter is compiled from data and reports released by the USDA, National Agricultural Statistics Service (NASS). All NASS data and reports are available free at [www.nass.usda.gov](http://www.nass.usda.gov)

## Hay Stocks

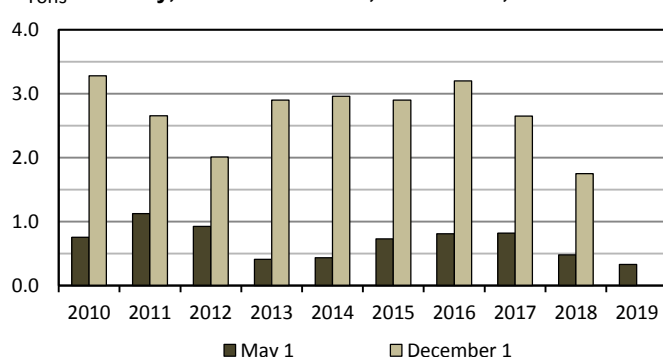
All hay stored on Wisconsin farms as of May 1, 2019, is estimated at 330,000 tons, a decrease of 31 percent from May 1, 2018. This is the lowest Wisconsin hay stocks in May since the USDA began recording hay stocks in 1950. Disappearance from December 1, 2018, through May 1, 2019, totaled 1.42 million tons, compared with 2.17 million tons for the same period a year earlier.

All hay stored on United States farms, as of May 1, 2019, totaled 14.9 million tons, down 3 percent from a year ago. Disappearance from December 1, 2018-May 1, 2019, totaled 64.1 million tons, compared with 69.1 million tons for the same period a year earlier. This marks the lowest May 1 hay stocks since the drought of 2012 and the second lowest since records began in 1950.

## Hay Stocks on Farms – Wisconsin and United States: December 1 and May 1, 2017-2019

State	December 1		May 1	
	2017	2018	2018	2019
	(1,000 tons)			
Wisconsin	2,650	1,750	480	330
United States	84,422	79,055	15,348	14,906

## Hay, On-Farm Stocks, Wisconsin, 2010-2019



## Winter Wheat

Winter wheat production in Wisconsin is forecast at 12.1 million bushels, 15 percent below last year's 14.2 million bushels. Based on conditions as of May 1, the State's winter wheat yield is forecast at 71 bushels per acre, the same as last year. Wisconsin winter wheat growers intend to harvest 170,000 acres for grain, down 15 percent from 2018.

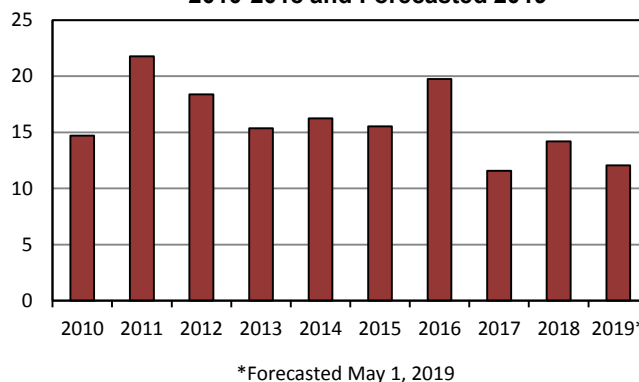
U.S. winter wheat production is forecast at 1.27 billion bushels, up 7 percent from 2018. As of May 1, the United States yield is forecast at 50.3 bushels per acre, up 2.4 bushels from last year's average yield of 47.9 bushels per acre.

The estimates in this report are based on May 1 conditions and do not reflect weather effects since that time. The next crop production forecast, based on conditions as of June 1, will be released on June 11.

## Winter Wheat Area Harvested, Yield, and Production – Wisconsin and United States: 2018 and Forecasted May 1, 2019

State	Area harvested		Yield per acre		Production	
	2018	2019	2018	2019	2018	2019
	(1,000 acres)		(bushels)		(1,000 bushels)	
Kansas	7,300	6,600	38.0	49.0	277,400	323,400
Montana	1,570	1,750	50.0	43.0	78,500	75,250
Oklahoma	2,500	3,000	28.0	35.0	70,000	105,000
Texas	1,750	2,350	32.0	33.0	56,000	77,550
Washington	1,650	1,650	76.0	68.0	125,400	112,200
<b>Wisconsin</b>	<b>200</b>	<b>170</b>	<b>71.0</b>	<b>71.0</b>	<b>14,200</b>	<b>12,070</b>
United States	24,742	25,214	47.9	50.3	1,183,939	1,268,461

## Winter Wheat Production, Wisconsin, 2010-2018 and Forecasted 2019



**Cheese Production: Wisconsin, 2014-2018**

Year	Total cheese <sup>1</sup>	Total American <sup>2</sup>	Hispanic	Muenster	Italian	Mozzarella	Swiss
	<i>(1,000 pounds)</i>						
2014.....	2,912,144	848,879	71,790	57,250	1,459,655	990,654	22,741
2015.....	3,069,641	909,749	77,197	60,935	1,537,095	1,051,136	16,651
2016.....	3,248,440	963,413	85,403	60,232	1,642,286	1,092,440	18,201
2017.....	3,376,769	1,016,702	90,982	61,690	1,703,029	1,110,105	16,664
2018.....	3,422,895	1,025,776	93,395	61,871	1,729,627	1,138,200	17,377

<sup>1</sup>Includes cream cheese and other miscellaneous types of cheese. Does not include cottage cheese. <sup>2</sup>Includes Cheddar, Colby, washed curd, stirred curd, and Monterey Jack.

**American Cheese Production, By Style: Wisconsin, 2018**

Style	Production	Percent of total <sup>1</sup>
	<i>(1,000 lbs)</i>	
American Cheddar		
40-lb block.....	252,707	24.6
640-lb block.....	296,540	28.9
Other types <sup>2</sup> .....	165,463	16.1
Colby.....	83,935	8.2
Monterey Jack.....	227,131	22.1
Total American types.....	1,025,776	100.0

<sup>1</sup> Percents may not add to 100 due to rounding. <sup>2</sup> Includes barrels.

**Italian Cheese Production, By Style: Wisconsin, 2018**

Style	Production	Percent of total <sup>1</sup>
	<i>(1,000 lbs)</i>	
Hard		
Asiago.....	28,882	1.7
Parmesan.....	218,743	12.6
Provolone.....	213,659	12.4
Romano.....	32,817	1.9
Soft		
Mozzarella.....	1,138,200	65.8
All other.....	97,326	5.6
Total Italian.....	1,729,627	100.0

<sup>1</sup> Percents may not add to 100 due to rounding.

**Processed Cheese And Cheese Foods: Wisconsin, 2014-2018**

Year	Processed cheese	Processed cheese foods & spreads	Cold pack cheese and cheese food
	<i>(1,000 pounds)</i>		
2014	644,814	311,307	36,224
2015	665,900	264,920	29,135
2016	703,388	184,271	21,867
2017	716,886	161,199	25,613
2018	694,099	162,822	24,647

**Whey Products: Wisconsin, 2014-2018**

Year	Dry whey		Total lactose	Whey protein concentrate human food
	Human food	Animal		
	(1,000 pounds solids)			
2014	280,339	3,211	237,557	115,002
2015	308,562	4,076	221,184	107,410
2016	312,946	4,390	259,609	103,949
2017	345,567	3,795	278,454	107,971
2018	319,747	6,240	285,464	109,894

**Total Cheese, Excluding Cottage Cheese: Wisconsin, 2018**

Ranges of Annual Production	State Plants	Production
		<i>(1,000 lbs)</i>
Less than 1 million pounds.....	35	7,756
1 to 4.99 million pounds.....	20	55,224
5 to 9.99 million pounds.....	15	117,812
10 to 24.99 million pounds.....	11	194,835
25 million pounds and over.....	37	3,047,268
Total.....	118	3,422,895

**Cheddar Cheese: Wisconsin, 2018**

Ranges of Annual Production <sup>1</sup>	State Plants	Production
		<i>(1,000 lbs)</i>
Less than 1 million pounds.....	42	7,246
1 to 9.99 million pounds.....	12	23,377
10 million pounds and over.....	15	684,087
Total.....	69	714,710

<sup>1</sup>Plant qualifies for a certain range based only on its Cheddar production.

**Italian Cheese: Wisconsin, 2018**

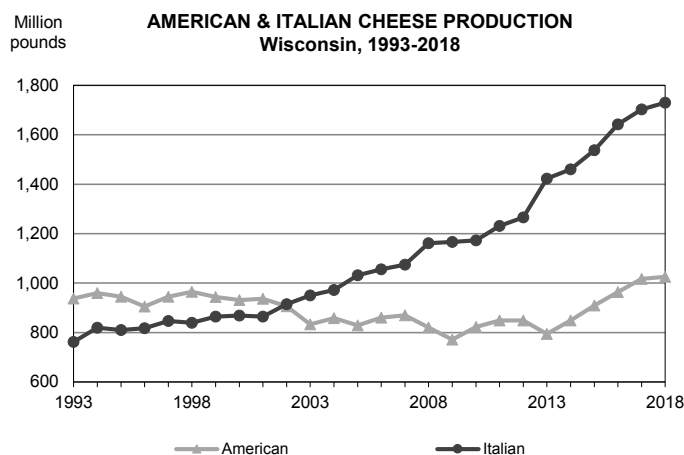
Ranges of Annual Production <sup>1</sup>	State Plants	Production
		<i>(1,000 lbs)</i>
Less than 1 million pounds.....	23	3,973
1 to 19.99 million pounds.....	8	60,779
20 million pounds and over.....	22	1,664,875
Total.....	53	1,729,627

<sup>1</sup>Plant qualifies for a certain range based only on its Italian production.

**Mozzarella Cheese: Wisconsin, 2018**

Ranges of Annual Production <sup>1</sup>	State Plants	Production
		<i>(1,000 lbs)</i>
Less than 1 million pounds.....	13	2,782
1 to 19.99 million pounds.....	8	60,321
20 million pounds and over.....	14	1,075,097
Total.....	35	1,138,200

1. Plant qualifies for a certain range based only on its Mozzarella production.



### Dairy Products, Production by Selected States and U. S.

Item and area	March 2018	February 2019	March 2019	Change from last year
	(1,000 pounds)			(percent)
<b>CHEESE</b>				
American types <sup>1</sup>	443,185	391,027	435,105	-1.8
Cheddar				
California	26,787	26,539	31,117	+16.2
Idaho	42,244	32,609	37,393	-11.5
Minnesota	48,452	44,369	49,022	+1.2
<b>Wisconsin</b>	<b>64,170</b>	<b>57,954</b>	<b>61,800</b>	<b>-3.7</b>
United States	320,257	280,816	309,900	-3.2
Blue & Gorgonzola	8,151	6,482	7,836	-3.9
Brick & Muenster	15,118	14,184	15,399	+1.9
Cream & Neufchatel	72,774	60,192	73,836	+1.5
Feta	11,187	10,434	11,416	+2.0
Gouda	5,924	2,710	4,260	-28.1
Hispanic	25,611	27,287	29,261	+14.3
Mozzarella				
California	126,391	122,552	124,974	-1.1
<b>Wisconsin</b>	<b>98,500</b>	<b>87,469</b>	<b>99,700</b>	<b>+1.2</b>
United States	372,712	347,234	378,012	+1.4
Parmesan	41,508	35,654	37,889	-8.7
Provolone	33,826	29,682	32,407	-4.2
Ricotta	23,200	18,614	23,736	+2.3
Romano	5,432	3,822	4,166	-23.3
Other Italian types	6,417	6,076	7,336	+14.3
<b>Total Italian</b>				
California	138,293	134,235	134,556	-2.7
<b>Wisconsin</b>	<b>150,532</b>	<b>133,913</b>	<b>152,362</b>	<b>+1.2</b>
United States	483,095	441,082	483,546	+0.1
Swiss	28,685	26,489	27,817	-3.0
All other cheese	14,292	11,459	12,129	-15.1
<b>Total cheese</b>				
California	215,761	200,731	209,052	-3.1
Idaho	86,090	71,563	89,708	+4.2
New Mexico	76,278	71,202	77,019	+1.2
<b>Wisconsin</b>	<b>295,459</b>	<b>260,992</b>	<b>293,309</b>	<b>-0.7</b>
United States	1,108,022	991,346	1,100,605	-0.7

<sup>1</sup> Includes Cheddar, Colby, and Monterey Jack.

## Wisconsin Specialty Cheese Production Tops 800 Million Pounds

With 26 percent of the nation's total cheese production, Wisconsin maintained its ranking as the nation's top cheese producing state in 2018. At 803 million pounds, specialty cheese accounted for 23 percent of Wisconsin's total cheese production. This was an increase of 4.02 million pounds over 2017.

Ninety-nine of the State's 118 cheese plants manufactured at least one type of specialty cheese during 2018. Blue, Feta, Havarti, Hispanic types, specialty Mozzarella, and Parmesan Wheel remain the most popular varieties. Farmer's cheese production rose 10 percent over the previous year, while Parmesan Wheel production was up 6 percent.

Wisconsin cheese makers are known for offering a wide variety of high quality specialty cheeses. A specialty cheese is a value-added product which commands a premium price. According to the Wisconsin Specialty Cheese Institute, the nature of specialty cheese is derived from one or more unique qualities, such as exotic origin, particular processing or design, limited supply, unusual application or use, and extraordinary packaging or channel of sale. The common denominator is its very high quality.

### SPECIALTY CHEESE PRODUCTION

Wisconsin, 2017 and 2018

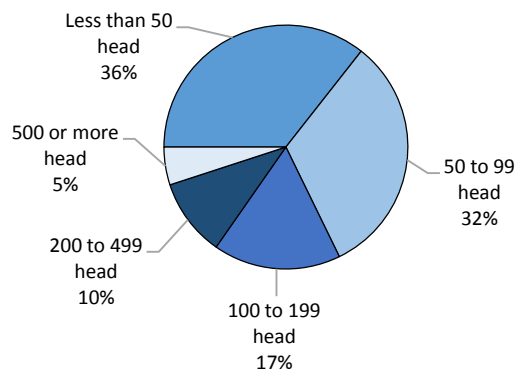
Type	2017 number of producers	2017 revised production	2018 number of producers	2018 production	Change in production from 2017
		(1,000 lbs.)		(1,000 lbs.)	(percent)
Asiago	13	31,941	14	28,882	-10
Cheddar <sup>1</sup>	40	29,036	44	28,624	-1
Colby <sup>1</sup>	10	7,792	(D)	(D)	(NA)
Farmers	12	1,342	13	1,475	+10
Feta	8	97,990	9	102,505	+5
Gorgonzola	10	18,102	9	18,007	-1
Gouda	26	18,684	29	14,188	-24
Italian Fontina	12	12,198	12	11,447	-6
Havarti	12	42,685	12	40,455	-5
Hispanic	12	91,407	15	93,394	+2
Limburger	1	447	1	464	+4
Monterey Jack <sup>1</sup>	(D)	(D)	15	9,392	(NA)
Parmesan Wheel	6	67,116	6	70,948	+6
Romano Wheel	6	10,655	8	9,516	-11
All Other <sup>2</sup>	59	369,255	54	373,375	+1
<b>Total<sup>3</sup></b>	<b>99</b>	<b>798,650</b>	<b>99</b>	<b>802,672</b>	<b>+1</b>

(D) Withheld to avoid disclosing data for individual operations (NA) Not available. <sup>1</sup> Includes only specialty types of this variety. <sup>2</sup> Combined to avoid disclosure of individual plant data. Includes: Alpine, American Grana, Auribella, Bel Paese, Blue, Brie and Camembert, Butterkase, Caerphilly, specialty Colby, Edam, Fior di Latte, Fontinella, Gruyere, other specialty Italian, Italico, Juustoleipa, Kefalograviera Sagana, Kasseri, Mascarpone, Middle Eastern cheeses, Morning Sun, specialty Mozzarella, other specialty Parmesan, Pepato, Peperon, specialty Provolone, Raclette, other specialty Romano, Soft-ripened, specialty Swiss, Tvarog Polish, and Yogurt cheese. <sup>3</sup> Total cheese plants producing one or more specialty cheeses.

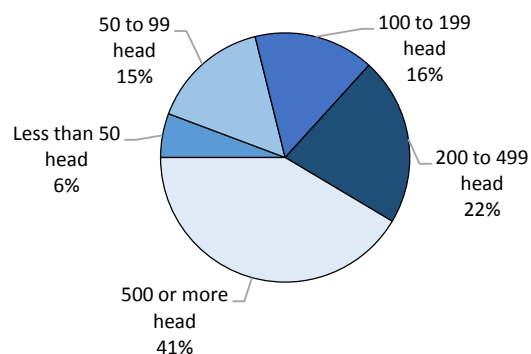
# 2017 CENSUS OF AGRICULTURE

Results Now Available at:  
[www.nass.usda.gov/AqCensus](http://www.nass.usda.gov/AqCensus)

## Operations with Milk Cows, By Herd Size, Wisconsin, Census of Agriculture 2017



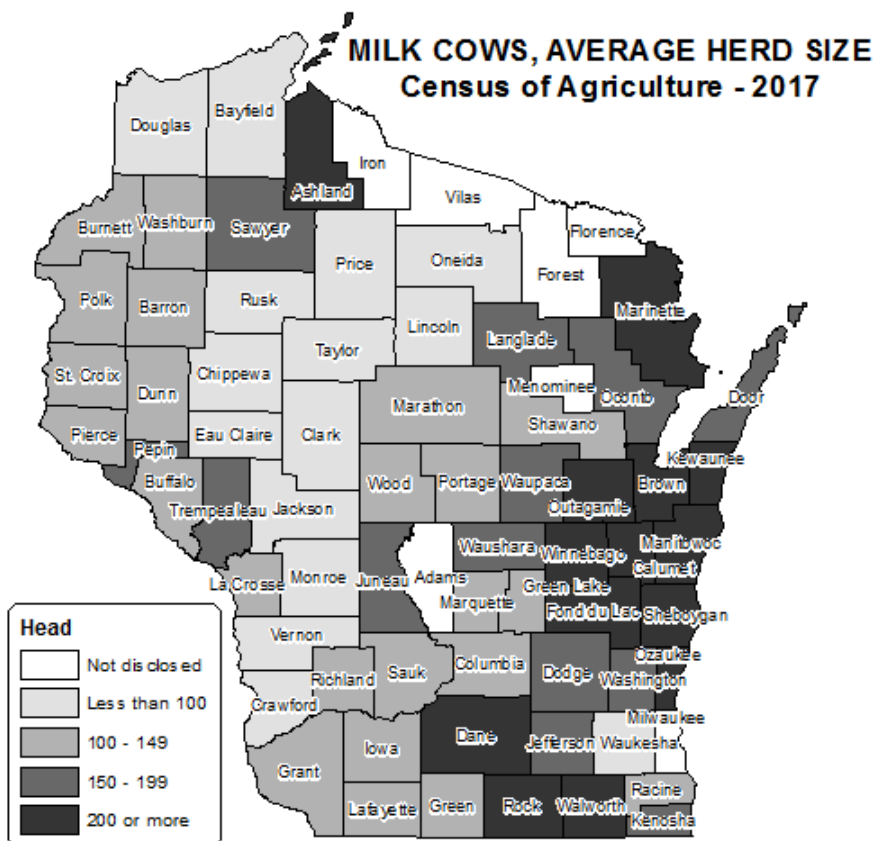
## Milk Cow Inventory, By Herd Size, Wisconsin, Census of Agriculture 2017



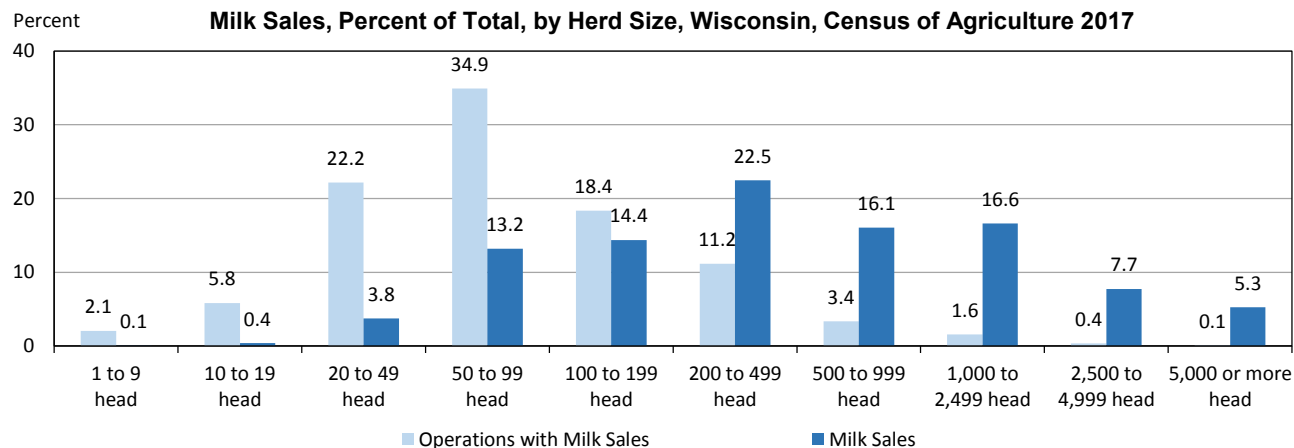
## Operations with Milk Cows and Milk Cow Inventory, By Herd Size, Wisconsin, Census of Agriculture 2017

Herd Size	Operations with Milk Cows			Milk Cow Inventory			Average Herd Size <sup>1</sup>
	2012	2017	Change	2012	2017	Change	
1 to 9 head	586	874	+49%	1,861	2,468	+33%	3
10 to 19 head	712	495	-30%	10,017	6,828	-32%	14
20 to 49 head	3,278	1,848	-44%	116,971	63,923	-45%	35
50 to 99 head	4,181	2,908	-30%	277,611	197,279	-29%	68
100 to 199 head	1,584	1,529	-3%	209,669	199,898	-5%	131
200 to 499 head	815	930	+14%	241,535	279,194	+16%	300
500 or more head	387	453	+17%	412,427	530,805	+29%	1,172
State total	11,543	9,037	-22%	1,270,091	1,280,395	+1%	142

<sup>1</sup>Milk cow inventory divided by number of operations with milk cows.



## Milk Sales, Percent of Total, by Herd Size, Wisconsin, Census of Agriculture 2017



The Wisconsin Farm Reporter has been made possible through the cooperative efforts of the U.S. Department of Agriculture, National Agricultural Statistics Service and the Wisconsin Department of Agriculture, Trade, and Consumer Protection.

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